

**The Claims Defining the Invention are as Follows**

1. A wing-in-ground-effect craft characterised by canard configuration, having a canard forewing and a main wing.
2. A wing-in-ground-effect craft as claimed in claim 1 wherein the canard forewing has less than 40% of the area of the main wing.
3. A wing-in-ground-effect craft as claimed in claim 1 wherein the canard forewing has less than 30% of the area of the main wing.
4. A wing-in-ground-effect craft as claimed in claim 1 wherein the canard forewing has from 10% to 20% of the area of the main wing.
5. A wing-in-ground-effect craft as claimed in claim 1 wherein the canard forewing has from 11% to 13% of the area of the main wing.
6. A wing-in-ground-effect craft as claimed in any one of claims 1 to 5 wherein the canard forewing has a substantial portion with a dihedral configuration disposed at a first angle of inclination from the vertical.
7. A wing-in-ground-effect craft as claimed in any one of claims 1 to 5 wherein the canard forewing has a dihedral configuration in its inner portion, said inner portion being disposed at a first angle of inclination from the vertical, said canard forewing having its outer portions disposed at a second angle of inclination from the vertical which is greater in absolute terms than said first angle.
8. A wing-in-ground-effect craft as claimed in claim 6 or 7 wherein said first angle lies from 80° to 65°.
9. A wing-in-ground-effect craft as claimed in claim 6 or 7 wherein said first angle lies from 75° to 65°.

10. A wing-in-ground-effect craft as claimed in claim 6 or 7 wherein said first angle is about  $68^{\circ}$ .
11. A wing-in-ground-effect craft as claimed in any one of claims 8 to 10 as dependent on claim 7 wherein said second angle is from  $85^{\circ}$  to  $95^{\circ}$ .
- 5 12. A wing-in-ground-effect craft as claimed in any one of claims 8 to 10 as dependent on claim 7 wherein said second angle is from  $90^{\circ}$  to  $92^{\circ}$ .
13. A wing-in-ground-effect craft as claimed in any one of claims 6 to 12 wherein said dihedral configuration has an angle of attack of from  $5^{\circ}$  to  $9^{\circ}$ .
- 10 14. A wing-in-ground-effect craft as claimed in claim 13 wherein said dihedral configuration has an angle of attack of from  $6^{\circ}$  to  $8^{\circ}$ .
- 15 15. A wing-in-ground-effect craft as claimed in claim 13 wherein said dihedral configuration has an angle of attack of from  $7^{\circ}$  to  $7.5^{\circ}$ .
16. A wing-in-ground-effect craft as claimed in any one of claims 7 to 15 wherein said outer portions have an angle of attack less than the angle of attack of the inner portions.
17. A wing-in-ground-effect craft as claimed in claim 16 wherein said outer portions have an angle of attack of from  $2^{\circ}$  to  $6^{\circ}$ .
18. A wing-in-ground-effect craft as claimed in claim 16 wherein said outer portions have an angle of attack of from  $3^{\circ}$  to  $5^{\circ}$ .
- 20 19. A wing-in-ground-effect craft as claimed in claim 16 wherein said outer portions have an angle of attack of from  $4^{\circ}$  to  $4.5^{\circ}$ .
20. A wing-in-ground-effect craft as claimed in any one of claims 6 to 19 wherein said canard forewing incorporates control surfaces.

21. A wing-in-ground-effect craft as claimed in any one of claims 1 to 20 wherein said main wing is of forward delta configuration.
22. A wing-in-ground-effect craft as claimed in any one of claims 1 to 20 wherein said main wing has an angle of attack of from 2° to 6°.
- 5 23. A wing-in-ground-effect craft as claimed in claim 22 wherein said main wing has an angle of attack of from 3° to 5°.
24. A wing-in-ground-effect craft as claimed in claim 22 wherein said main wing has an angle of attack of from 4° to 4.5°.
- 10 25. A wing-in-ground-effect craft as claimed in any one of claims 1 to 20 wherein said wing-in-ground-effect craft is amphibious, and has a planing hull.
26. A wing-in-ground-effect craft as claimed in claim 25 wherein said main wing incorporates pontoon floats attached to opposite outer extremities thereof (ie one pontoon on each side of the craft).
- 15 27. A wing-in-ground-effect craft as claimed in any one of claims 1 to 26 wherein said wing-in-ground-effect craft has a single vertical stabiliser located at the rear thereof.
28. A wing-in-ground-effect craft as claimed in claim 27 wherein said vertical stabiliser is located atop a first propulsion unit in the form of a ducted fan.
- 20 29. A wing-in-ground-effect craft as claimed in claim 28 wherein said wing-in-ground-effect craft includes at least one rudder control surface located in the flow pathway of said ducted fan.
30. A wing-in-ground-effect craft as claimed in any one of claims 25 to 29 wherein said wing-in-ground-effect craft incorporates a spade rudder for low

speed control, said spade rudder being disposed so as to be immersed below the water-line when the wing-in-ground-effect craft is afloat.

31. A wing-in-ground-effect craft as claimed in any one of claims 25 to 30 wherein said wing-in-ground-effect craft includes a further propulsion unit in the form of a water propulsion means extending below said hull, preferably in the form of a retractable leg.
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32. A wing-in-ground-effect craft substantially as herein described with reference to the drawings.
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